

(FILE 'HOME' ENTERED AT 15:15:36 ON 05 DEC 2006)

FILE 'REGISTRY' ENTERED AT 15:15:47 ON 05 DEC 2006

L1               STRUCTURE UPLOADED

L2               0 S L1

L3               2 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:16:31 ON 05 DEC 2006

L4               1 S L3

FILE 'USPATFULL' ENTERED AT 15:17:22 ON 05 DEC 2006

L5               1 S L3

FILE 'HOME' ENTERED AT 15:15:36 ON 05 DEC 2006

=>

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:15:47 ON 05 DEC 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

DICTIONARY FILE UPDATES: 4 DEC 2006 HIGHEST RN 914768-89-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

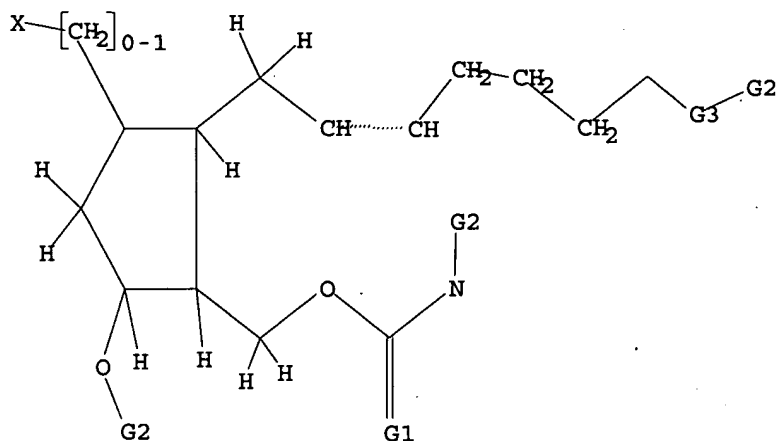
Uploading C:\Program Files\Stnexp\Queries\10659091amended.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S  
G2 H,Ak  
G3 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:16:05 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1 TO 80  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 15:16:10 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

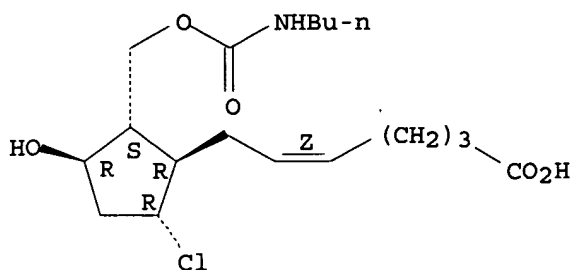
100.0% PROCESSED 10 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> d l3 scan

L3 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN 5-Heptenoic acid, 7-[(1R,2S,3R,5R)-2-[[[(butylamino)carbonyl]oxy]methyl]-5-chloro-3-hydroxycyclopentyl]-; (5Z)- (9CI)  
MF C18 H30 Cl N O5

Absolute stereochemistry.  
Double bond geometry as shown.

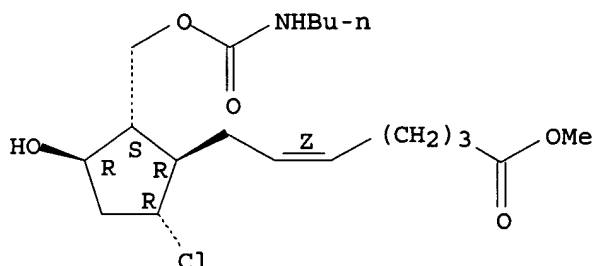


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 5-Heptenoic acid, 7-[(1R,2S,3R,5R)-2-[[[(butylamino)carbonyl]oxy]methyl]-5-chloro-3-hydroxycyclopentyl]-, methyl ester, (5Z)-(9CI)  
 MF C19 H32 Cl N O5

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 166.94     | 167.15  |

FILE 'CAPLUS' ENTERED AT 15:16:31 ON 05 DEC 2006  
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FILE COVERS 1907 - 5 Dec 2006 VOL 145 ISS 24  
FILE LAST UPDATED: 4 Dec 2006 (20061204/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3

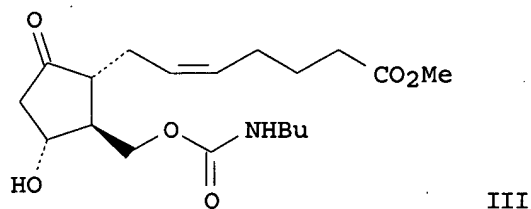
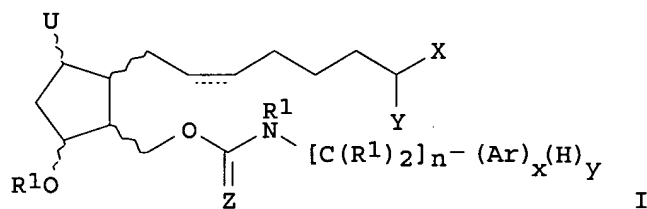
L4 1 L3

=> d l4 ti abs bib

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of 2-(thiocarbamoyloxy)- and 2-(carbamoyloxy)cyclopentane-1-heptan(en)ioic acid compounds for treating ocular hypertension

GI



AB A method of treating ocular hypertension (glaucoma) comprises administering to a mammal having ocular hypertension a therapeutically effective amount of a compound represented by formula (I) [wherein a wavy segments indicate either the  $\alpha$  or  $\beta$  configuration; the dashed bond represents a double bond or a single bond; U = :O,  $\alpha$ - or  $\beta$ -halo; Z = O, S; Ar = (un)substituted C4-10 aryl or heteroaryl; n = 0-4; x, y = 0, 1; provided that when x is 1, yr is 0 and when x is 0, yr is 1; R1 = H, (un)substituted C $\leq$ 6 alkyl; X = OR1, N(R1)2; Y = :O or represents 2 hydrogen radicals] or pharmaceutically acceptable salts and/or esters thereof. Thus, carbamoylation of (Z)-7-[(1R,2S,3R,5S)-2-(hydroxymethyl)-3,5-bis(tetrahydropyran-2-yloxy)cyclopentyl]hept-5-enoic acid Me ester with Bu isocyanate in the presence of DABCO in THF followed by treatment with pyridinium p-toluenesulfonate in MeOH gave (Z)-7-[(1R,2S,3R,5S)-2-[(butylcarbamoyloxy)methyl]-3,5-dihydroxycyclopentyl]hept-5-enoic acid Me ester which was silylated with tert-butyldimethylsilyl chloride in the presence of Et3N and 4-dimethylaminopyridine in CH2Cl2 to give (Z)-7-[(1R,2S,3R,5S)-2-[(butylcarbamoyloxy)methyl]-3-(tert-butyldimethylsilyloxy)-5-hydroxycyclopentyl]hept-5-enoic acid Me ester (II). Oxidation of II with tetrapropylammonium perruthenate, 4-methylmorpholine N-oxide, and 4Å

mol. sieves in CH<sub>2</sub>Cl<sub>2</sub> to give (Z)-7-[(1R,2S,3R)-2-  
 [(butylcarbamoyloxy)methyl]-3-(tert-butyldimethylsilyloxy)-5-  
 oxocyclopentyl]hept-5-enoic acid Me ester which was treated with  
 HF-pyridine in MeCN to give (Z)-7-[(1R,2S,3R)-2-  
 [(butylcarbamoyloxy)methyl]-3-hydroxy-5-oxocyclopentyl]hept-5-enoic acid  
 Me ester (III).

AN 2005:220145 CAPLUS  
 DN 142:297917  
 TI Preparation of 2-(thiocarbamoyloxy)- and 2-(carbamoyloxy)cyclopentane-1-  
 heptan(en) oic acid compounds for treating ocular hypertension  
 IN Old, David W.; Burk, Robert M.  
 PA Allergan, Inc., USA  
 SO U.S. Pat. Appl. Publ., 12 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 2005054689   | A1   | 20050310 | US 2003-659091  | 20030909 |
|      | AU 2004272524   | A1   | 20050324 | AU 2004-272524  | 20040818 |
|      | CA 2537794  | AA   | 20050324 | CA 2004-2537794 | 20040818 |
|      | WO 2005026109   | A1   | 20050324 | WO 2004-US27001 | 20040818 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
|      | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|      | EP 1663961  | A1   | 20060607 | EP 2004-781645  | 20040818 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |      |          |                 |          |
|      | BR 2004013722   | A    | 20061017 | BR 2004-13722   | 20040818 |
| PRAI | US 2003-659091  | A    | 20030909 |                 |          |
|      | WO 2004-US27001   | W    | 20040818 |                 |          |
| OS   | CASREACT 142:297917; MARPAT 142:297917  |      |          |                 |          |

=> file uspatfull  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 3.20             | 170.35        |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| -0.75            | -0.75         |

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 30 Nov 2006 (20061130/PD)  
 FILE LAST UPDATED: 30 Nov 2006 (20061130/ED)  
 HIGHEST GRANTED PATENT NUMBER: US7143445  
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006272066  
 CA INDEXING IS CURRENT THROUGH 28 Nov 2006 (20061128/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 30 Nov 2006 (20061130/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> s 13

L5 1 L3

=> d 15 ti abs bib

L5 ANSWER 1 OF 1 USPATFULL on STN

TI Cyclopentane heptan(ene)oic acid, 2-thiocarbamoyloxy and 2-carbamoyloxy compounds as therapeutic agents

AB The invention relates to the use of cyclopentane heptan(ene)oic acid, 2-thiocarbamoyloxy and carbamoyloxy as therapeutic agents e.g. as ocular hypotensives. The compounds used in accordance with the invention are represented by the following formula I: ##STR1##

wherein a wavy segments indicate either the alpha ( $\alpha$ ) or beta ( $\beta$ ) configuration; the dashed bond represents a double bond or a single bond; U, Y, X, R.sup.1, Ar, n, x and y are as defined in the specification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2005:63647 USPATFULL

TI Cyclopentane heptan(ene)oic acid, 2-thiocarbamoyloxy and 2-carbamoyloxy compounds as therapeutic agents

IN Old, David W., Irvine, CA, UNITED STATES

Burk, Robert M., Laguna Beach, CA, UNITED STATES

PA Allergan, Inc. (U.S. corporation)

PI US 2005054689 A1 20050310

AI US 2003-659091 A1 20030909 (10)

DT Utility

FS APPLICATION

LREP Robert J. Baran (T2-7H), ALLERGAN, INC., Legal Department, 2525 Dupont Drive, Irvine, CA, 92612

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 645

CAS INDEXING IS AVAILABLE FOR THIS PATENT.